

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/13852

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> G01N35/08, 27/26, 30/48, 37/00, B01D57/02, B81C1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> G01N35/08-35/10, 27/26-27/49, 30/00-30/96, 37/00,  
B01D57/02, B81C1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JOIS (JICST FILE)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SANO, BABA, IGUCHI, IIDA, KAWAURA, SAKAMOTO, Dai 63 Kai Extended Abstracts; The Japan Society of Applied Physics, separate Vol.3, 24 September, 2002 (24.09.02), page 1146 (25a-R-8)	1-26
Y	US 6027623 A (Toyo Technologies, Inc.), 22 February, 2000 (22.02.00), Full text; Figs. 1 to 4 (Family: none)	1-26
Y	JP 9-504362 A (British Technology Group USA Inc.), 28 April, 1997 (28.04.97), Page 24, line 13 to page 25, line 5; Fig. 7 & WO 94029707 A & US 5427663 A & EP 711412 A & US 5837115 A & CA 2164720 A	1-26

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not

considered to be of particular relevance

"E" earlier document but published on or after the international filing

date

"L" document which may throw doubts on priority claim(s) or which is

cited to establish the publication date of another citation or other

special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other

means

"P" document published prior to the international filing date but later

than the priority date claimed

"T"

later document published after the international filing date or

priority date and not in conflict with the application but cited to

understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be

considered novel or cannot be considered to involve an inventive

step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be

considered to involve an inventive step when the document is

combined with one or more other such documents, such

combination being obvious to a person skilled in the art

"&amp;"

document member of the same patent family

Date of the actual completion of the international search

05 February, 2004 (05.02.04)

Date of mailing of the international search report

24 February, 2004 (24.02.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2002/023180 A (Hitachi, Ltd.), 21 March, 2002 (21.03.02), Full text; Figs. 1 to 14 (Family: none)	17,21-26
Y	JP 2002-310992 A (Hitachi Electronics Engineering Co., Ltd.), 23 October, 2002 (23.10.02), Par. Nos. [0014] to [0016]; Figs. 1 to 4 (Family: none)	18
Y	JP 2002-55098 A (Nippon Columbia Co., Ltd.), 20 February, 2002 (20.02.02), Par. Nos. [0026] to [0035]; Fig. 3 (Family: none)	21-26
A	JP 8-327594 A (Shimadzu Corp.), 13 December, 1996 (13.12.96), Full text; Figs. 1 to 7 (Family: none)	1-26
A	JP 2001-183363 A (Roche Diagnostics Corp.), 06 July, 2001 (06.07.01), Full text; Figs. 1 to 6 & EP 1096254 A & US 6319719 B & CA 2324131 A	1-26
A	JP 2-112755 A (Fuji Photo Film Co., Ltd.), 25 April, 1990 (25.04.90), Full text; Figs. 1 to 4 (Family: none)	17
A	JP 7-43344 A (The Institute of Physical and Chemical Research), 14 February, 1995 (14.02.95), Full text; Figs. 1 to 8 (Family: none)	17
A	JP 2001-324471 A (Japan Science and Technology Corp.), 22 November, 2001 (22.11.01), Par. Nos. [0030] to [0036]; Fig. 1 (Family: none)	21-26
A	Marko T. Blom, Han J.G.E. Gradeniers, Albert van den Berg Analytical Chemistry, 15 July, 2002 (15.07.02), Vol.74, No.14, pages 3470 to 3475	1-26
A	James P. Novak, Charles Nickerson, Stefan Franzen, Daniel L. Feldheim Analytical Chemistry, 01 December, 2001 (01.12.01), Vol.73, No.23, pages 5758 to 5761	1-26